

Howard Rodenberg, M.D., M.P.H. Director of Health Kansas Department of Health and Environment



"SON, IT'S TIME WE HAD A SERIOUS TALK ABOUT the BIRDS and BEES"

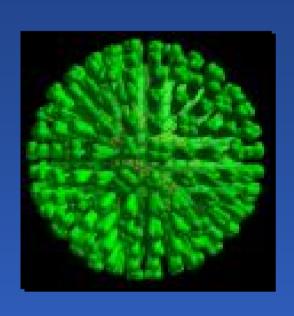
Overview

- Influenza ("seasonal")
- Keeping healthy during flu season
- Pandemic influenza
 - Avian influenza or "Bird flu"
- Plan for pandemic
- Question and answers



The Influenza Virus

- Virus
 - Different types (A and B)
 - Named strains (H and N)
 - Affects respiratory tract
 - Changes (mutates) rapidly
 - Antibiotics don't help





Spreading the Flu

- Virus Spread
 - Sneezing and coughing
 - via droplets
 - via fomites
 - Inanimate object that spreads disease



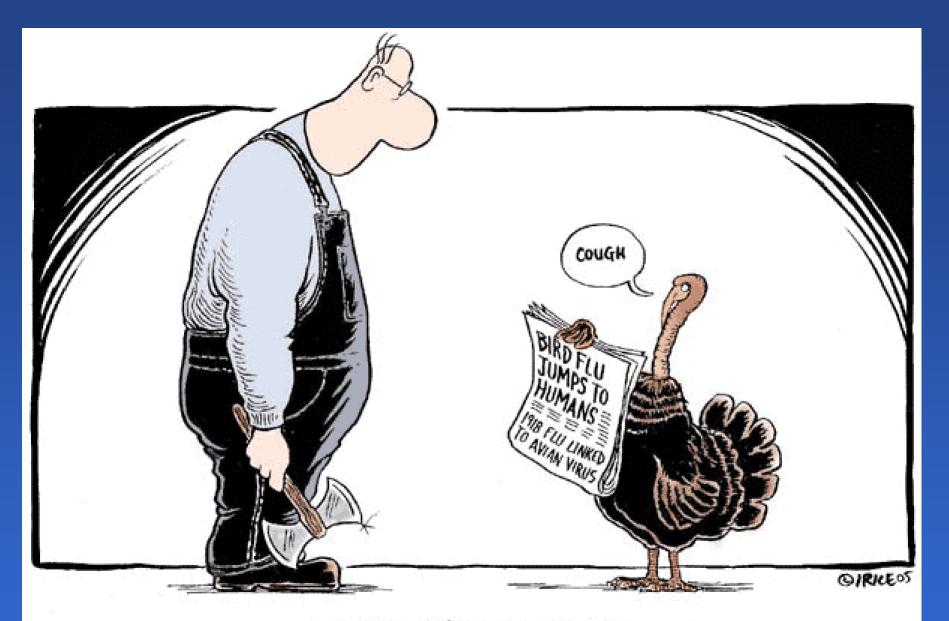




Influenza: Who, where, and when?

- Nearly everyone susceptible every year
 - Illnesses, hospitalizations, deaths
 - Usually older, younger and those with chronic illness
 - Influenza and complications (pneumonia)
 - Most of us have some immunity from repeated exposures
- Everywhere
 - Can't predict with certainty
- Seasonal
 - Winter





A THANKSGIVING IMPASSE

From Ingrid Rice, 'Please include GST (#894554328) 1947 Queensbury Ave. N. Van. B.C. V7L 3W1 Tel:(604) 988-4347 Fax: (604) 990-0349

Influenza: Signs and Symptoms

- Sudden onset
 - Lasts a few days
- Symptoms
 - Fever
 - Body aches
 - Headache
 - Cough
 - Excessive tiredness (malaise, fatigue)
- Rare complications (pneumonia)
- Rarely vomiting, diarrhea, or "stomach flu"
- Differs from the "common cold"



Preventing the Flu: What You Can Do

- 1. Wash hands
- 2. Cover your mouth when you cough
- 3. Stay home when sick
- 4. Avoid crowds during outbreaks
- 5. Vaccination









Vaccination

Made of mixture of viral types

- New vaccine every year
 - Injectable forms (adults and children)
 - Nasal spray (FluMist™)

Vaccines don't cause the flu



Who Needs Vaccination?

- Vaccination most helpful for those at highest risk of complications:
 - People 65+ years
 - Residents of long-term--care facilities
 - People 2-64 years with other conditions
 - Includes asthma, diabetes, heart disease
 - Children less than 2 years old



Others for Vaccination

- Pregnant women
- Health-care personnel
- Household contacts and child care givers of children aged 6 months or younger

Then, everyone else



Treatment

- Treat symptoms
 - Fluids
 - Rest
 - Medication to reduce fever and body aches (avoid aspirin!)
- A virus, so antibiotics don't work
- Antiviral medications
 - Tamiflu™ (oseltamivir)
 - Symmetrel™ (amantadine)





Pandemic Influenza

- Global outbreak with:
 - Novel virus
 - Something humans have never seen
 - All or most people susceptible
 - Wide geographic spread
- Spread can be rapid
 - Transmissible from person to person
 - Spread before signs of illness
 - Overwhelm health care



Novel Virus

- Since it's never been seen in humans, little to no immunity likely
- Anyone exposed could become infected
- May affect non-high risk groups
 - Those not traditionally seen as "high risk"
 - Healthy young adults?

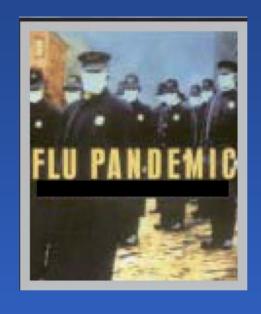


Pandemic influenza

- More severe symptoms
 - Higher rates of complications
 - More deaths
- More impact on normal community function
- When do they happen
 - Unpredictable
 - More rare than "regular" flu
- Can a pandemic be prevented?
 - Nobody knows for sure



Influenza Pandemics 20th Century



1918: "Spanish Flu" A(H1N1)

20-40 million deaths

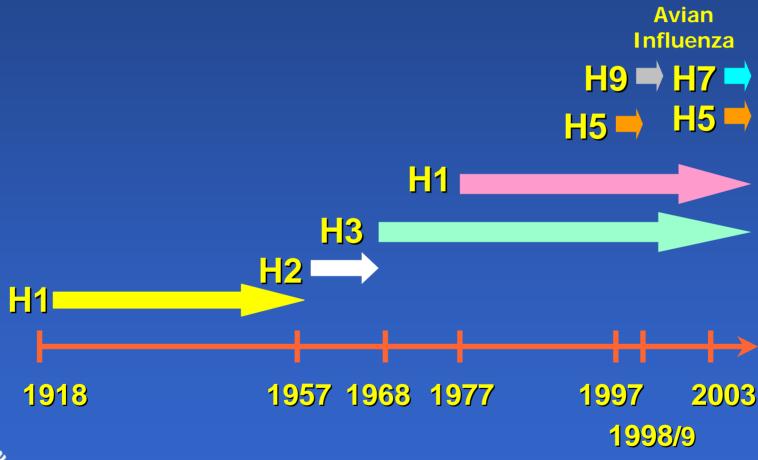
1957: "Asian Flu" A(H2N2)

1-4 million deaths

1968: "Hong Kong Flu" A(H3N2)

1-4 million deaths

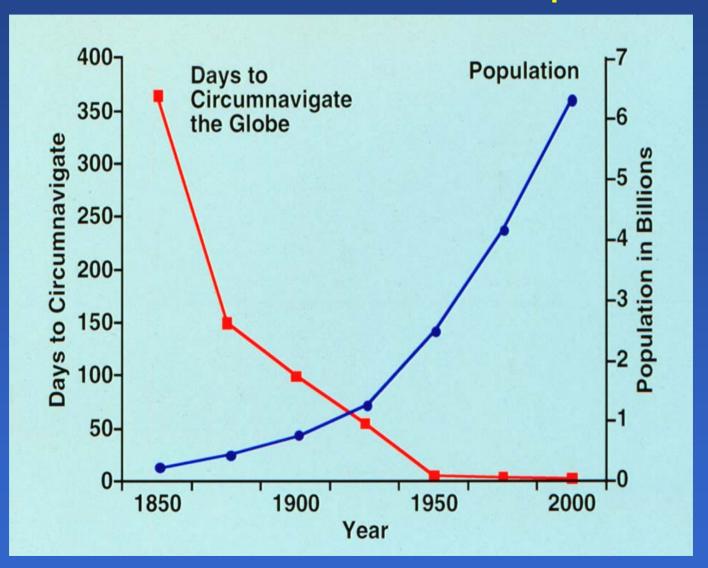
When Will the Next Influenza Pandemic Occur?

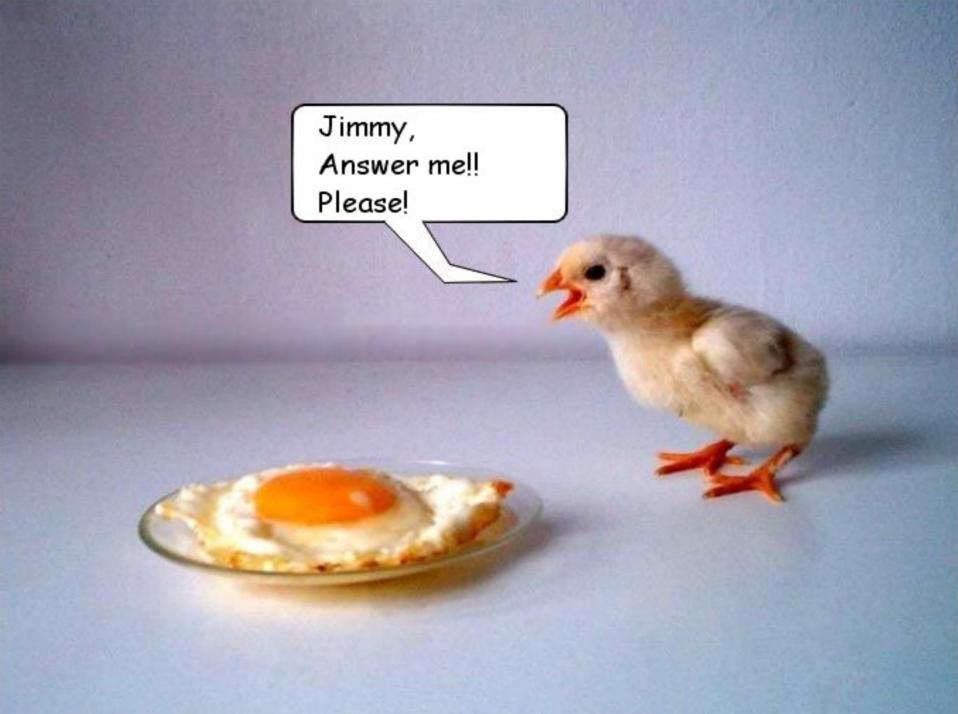






How Fast Can a Pandemic Spread?





Pandemic Influenza: Where Are We Now?

Interpandemic Period

Phase 1

Phase 2

Pandemic Alert Period

Phase 3—current —>

Phase 4

Phase 5

Pandemic Period

Phase 6

- Report of new strain in humans
- Rare human-to-human spread



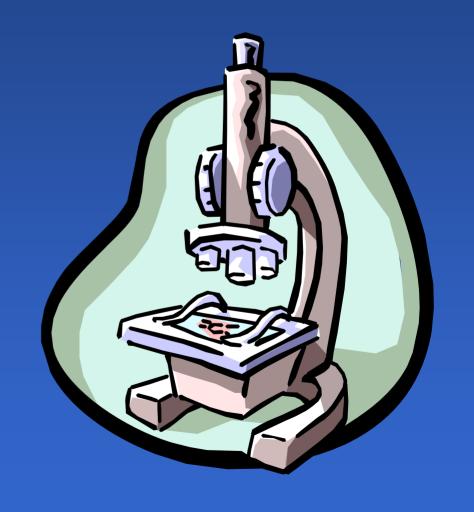
Next Pandemic Impact: USA

Attack rate ranging from 15% to 35%:

Outpatient care:
 18 – 42 million

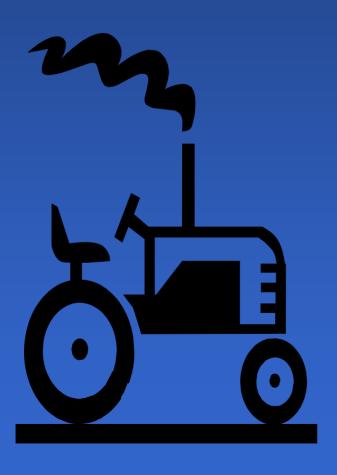
 Hospitalizations: 314,000 - 733,000

Deaths:89,000 – 207,000





Pandemic Impact: Kansas



- Attack rate ranging from 15% to 35%
- Outpatient care:
 208,000 486,000
- Hospitalizations:4,600 10,700
- Deaths:1,100 2,500







Kansas Pandemic Influenza Plan...

What's in it?



Goals of Pandemic Influenza Plan

Limit burden of disease

Minimize social disruption

Minimize economic impact

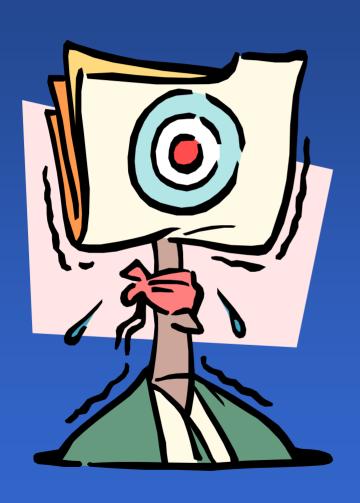


State Plan: Focus Areas

- Surveillance
 - -Tracking the disease
- Emergency Response
 - Health care providers, public health systems, and community agents must all partner at state and local levels to ensure effective response
 - -Vaccine, antiviral delivery
 - -Isolation and quarantine
- Communications/informing the public
 - -Right time, right information, truth always



The Plan is a Living Document...



- ...as the target keeps changing!
- Help us plan at kdheks.gov



State Efforts

- "Flu Tour 2005"
- Multiple other presentations
- KU AHEC Flu Meetings
- Working with Parks and Wildlife, Agriculture, and Animal Health colleagues
- Advancing concept of "COOP" planning



Federal Planning Efforts

- HHS "Pandemic Flu Summits"
- Federal bigwigs and Governors
- Promoting planning efforts
- Memorandum of Agreement (MOA) between HHS and states
 - Kansas signed its agreement in conjunction with the Kansas Flu Summit on May 31st



Federal Dollars

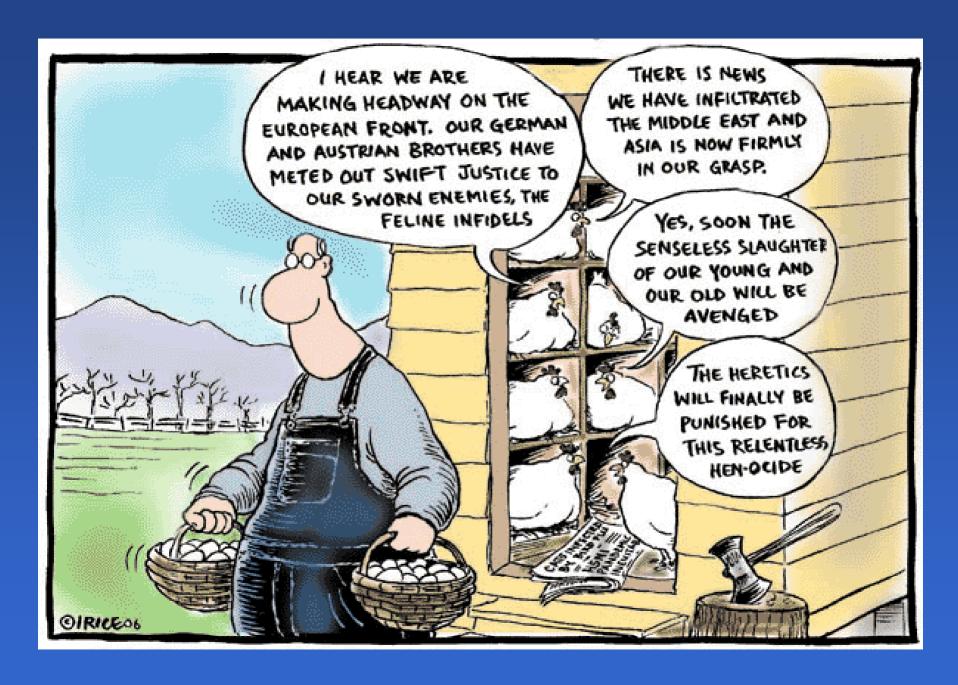
- \$3.8 billion allocated by Congress
- \$350 million into state pandemic flu planning; "vast majority of funds" to go to locals
 - KS received \$1.1 million in first phase;80% ATL
 - KS applying for \$2.29 million second phase
- Congress allocated another \$250 million to continue efforts another year



Federal Guidelines

- Checklists for state, local, and community organization planning
- Antiviral guidelines and purchase plans





Vaccines and Antivirals

- Two million doses H5N1 vaccine made;
 8 million more contracted
- New H5N1 vaccine produces adequate immune response in 60% of cases
- Antiviral Medications
- H5N1 resistant to adamantanes (Symmetrel); 15% resistant to neuraminidase inhibitors (Tamiflu)



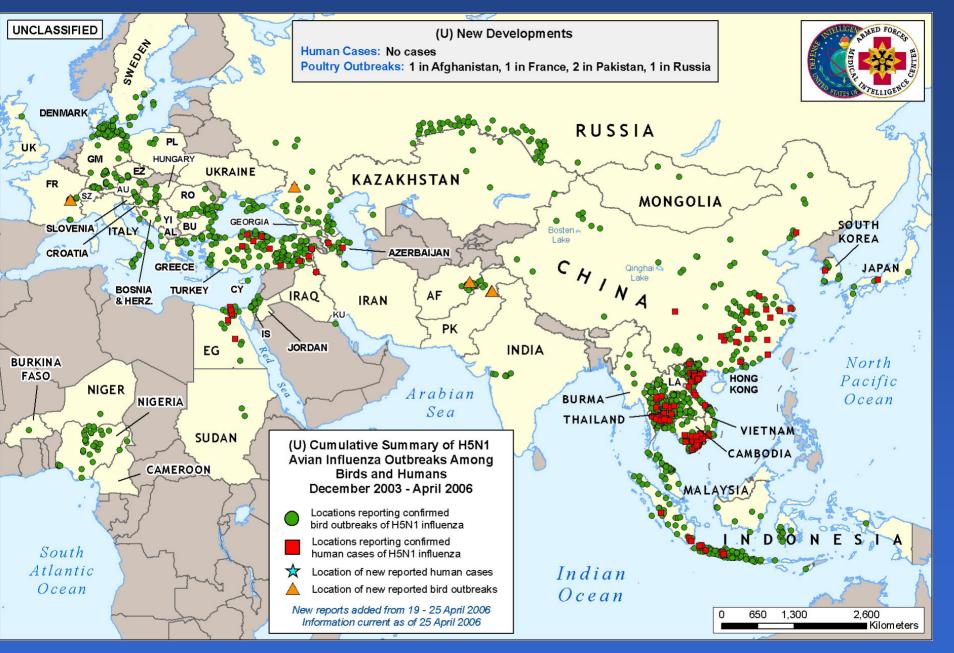


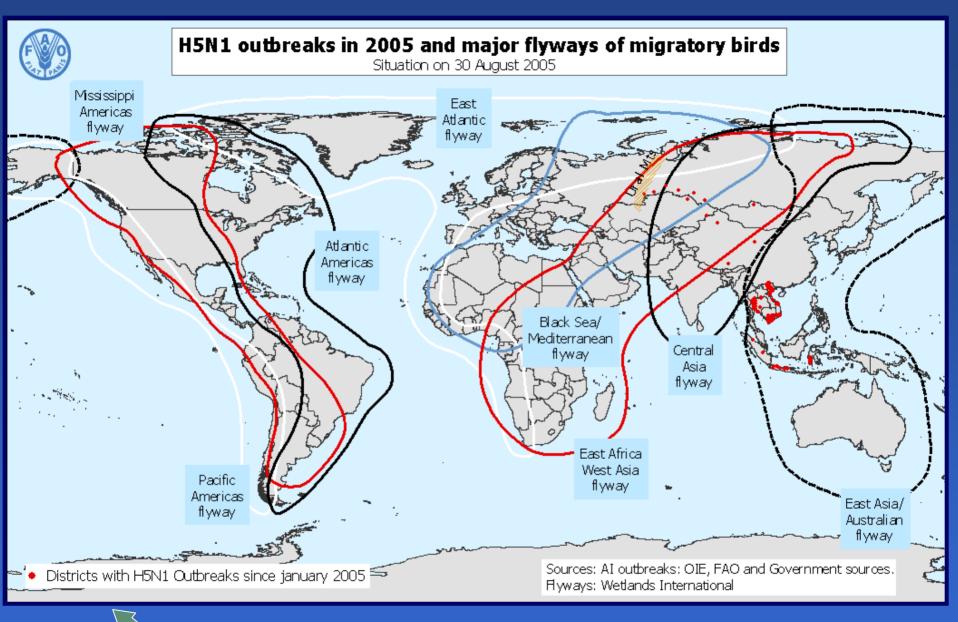
"Bird Flu" and Pandemics

- Pandemic flu and "bird flu"
- Where is H5N1?
 - Asia, Middle East, Africa, Western Europe
- As of August 23rd: 241 human cases with 141 deaths
- No widespread human-to-human transmission; no evidence virus has mutated into a form easily passed from person-to-person
- Not seen in North America



UNCLASSIFIED





Bird Flu Outbreak Path; does not follow major bird migration flyways.

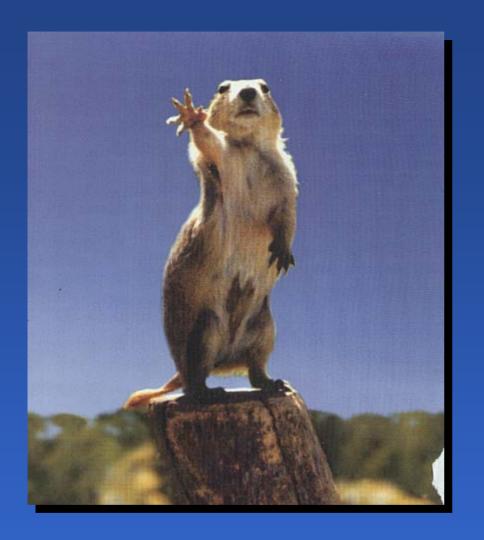
What Can Individuals Do?

- "The Flu is Still the Flu"
- Prevention is key!
- Treatment remains the same
- Be concerned, but be confident
- You can help keep yourself and your family safe from influenza...now and in the future!



"The pandemic clock is ticking, we just don't know what time it is" ---E. Marcuse

"Does anybody really know what time it is?"
---Chicago



Questions?

www.kdheks.gov